	Application No.	Applicant(s)	
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Notice of Allowability	10/826,981	BLAKE ET AL.	
Troub of Amonabaty	Examiner	Art Unit	
	Yon Couso	2624	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in the state of the s	n this application. If not included unication will be mailed in due course. THIS	е
1. This communication is responsive to 4/16/04.			
2. The allowed claim(s) is/are <u>1-23</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the:		or (f).	
1. Certified copies of the priority documents ha			
2. Certified copies of the priority documents ha	, ,		
3. Copies of the certified copies of the priority of	documents have been receive	ed in this national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	E" of this communication to file NMENT of this application.	e a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g	omitted. Note the attached EX lives reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF or declaration is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") m	nust be submitted.		
(a) ☐ including changes required by the Notice of Draftspe		w (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examine Paper No./Mail Date		r in the Office action of	
Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such in	R 1.84(c)) should be written on t n the header according to 37 C	the drawings in the front (not the back) of FR 1.121(d).	
6. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN	DOSIT OF BIOLOGICAL MAT IT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.	
Attachment(s)	_		
1. Notice of References Cited (PTO-892)		nformal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948		ummary (PTO-413), /Mail Date	
3. Information Disclosure Statements (PTO/SB/08),		Amendment/Comment	
Paper No./Mail Date <u>4/16/04</u> 4. Examiner's Comment Regarding Requirement for Deposit	t 8. ⊠ Examiner's	Statement of Reasons for Allowance	
of Biological Material	9. 🗌 Other	<u>_</u> .	

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1. The following is an examiner's statement of reasons for allowance:

Prior art fails to teach or suggest a method and a computer program product for correcting an artifact in a virtual image synthesized from stereo images, the method comprising detecting the artifact in the virtual image based on a disparity map of the stereo images, designating a source patch relative to the artifact in the virtual image, generating a target patch as a composite of a background exemplar patch and a foreground exemplar patch, each exemplar patch being identified from an image patch from at least one of the stereo images, and replacing the source patch of the virtual image with the target patch.

Prior art also fails to teach or suggest a system for correcting an artifact in a cyclopean virtual image synthesized from stereo images, the system comprising an artifact correction module that detects the artifact in the virtual image based on a disparity map of the stereo images, designates a source patch relative to the artifact in the virtual image, generates a target patch as a composite of a background exemplar patch and a foreground exemplar patch, and replaces the source patch of the virtual image with the target patch.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Claims 1-23 are allowed.

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3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Steffens et al is cited because the reference teaches detecting artifacts based on the disparity map detected between multiple images.

Chen et al is cited because the reference teaches a scene depth imaging system wherein a foreground depth map id formed by analyzing the depth map of a scene.

Toyama et al is cited because the applicant has cited US Application Serial No. 09/528,827, which is now US Patent No. 6,806,898.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yon Couso whose telephone number is (571) 272-7448. The examiner can normally be reached on Monday through Friday from 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen Lillis, can be reached on (571) 272-6928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YJC

May 10, 2007

YON J. COUSD PRIMARY EXAMINER